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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing of claims in the application.

1. (Currently Amended) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:
creating a hierarchy of hierarchy nodes in the VCR comprising the substeps of: [,]
indicating a location of each hierarchy node in the hierarchy by an identifier;
wherein the node has an identifier that indicates a location of the node in said VCR
relating each hierarchy node to a type of content; and
associating each hierarchy node with a first schema;
creating a content node for each of the plurality of content repositories;
associating [[the]] each hierarchy node with at least one content node;
associating each content node with a second schema; of: 1) a property; and 2) a schema;
storing the hierarchy and content nodes in [[said]] the VCR; and
wherein storing the hierarchy and content nodes in [[said]] the VCR will result in the at least one
property and/or results in storing each schema [[being stored]] in one of [[said]] the plurality of content
repositories.
2. (Currently Amended) The method of claim 1 wherein:
the first and second schemas comprise one or more properties, wherein each [[the]] property is an
association between a name and at least one value.
3. (Original) The method of claim 2 wherein:
the at least one value can be a text string, a number, an image, an audio/visual presentation, or
binary data.
4. (Currently Amended) The method of claim 1 [[wherein]] further comprising:
integrating each one of the plurality of content repositories into the VCR by use of one or more of
a VCR browser, a content node editor, a schema editor and a property editor exposes a first set of services
to enable its integration into the VCR.
5. (Currently Amended) The method of claim [[1]] 2 wherein:
[[the schema includes]] each property comprises at least one property definition.

6. (Currently Amended) The method of claim 5 wherein:

[[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

a reference;

a data type;

whether [[the]] each property is mandatory;

whether [[the]] each property is multi-valued;

whether [[the]] each property is primary;

whether [[the]] each property is read-only; and

whether [[the]] each property is restricted.

7-8. (Canceled).

9. (Currently amended) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

creating [[obtaining]] a hierarchy of hierarchy nodes in [[from said]] the VCR comprising the substeps of [[,]]

indicating a location of each hierarchy node in the hierarchy by an identifier;

wherein the node has an identifier that indicates a location of the node in said VCR

relating each hierarchy node to a type of content; and

associating each hierarchy node with a first schema;

creating a content node for each of the plurality of content repositories;

associating each hierarchy node with at least one content node;

associating each content node with a second schema ~~wherein the node is associated with information that includes at least one of : 1) a property, and 2) a schema;~~

storing each schema ~~wherein the node information is stored in [[at least]] one of [[said]] the plurality of content repositories; and~~

integrating [[wherein]] each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor ~~exposes a first set of services to enable its integration into the VCR.~~

10. (Currently amended) The method of claim 9 wherein:
~~the first and second schemas comprise one or more properties, wherein each [[a]] property is an association between a name and at least one value.~~

11. (Original) The method of claim 10 wherein:
the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

12. (Original) The method of claim 9 wherein:
the identifier is a path.

13. (Currently amended) The method of claim [[9]] 10 wherein:
[[a schema includes]] ~~each property comprises~~ at least one property definition.

14. (Currently amended) The method of claim 13 wherein:
[[a]] ~~the at least one~~ property definition can specify at least one of [[the following for a property]]:
property choices;
a reference;
a data type;
whether [[the]] ~~each~~ property is mandatory;
whether [[the]] ~~each~~ property is multi-valued;
whether [[the]] ~~each~~ property is primary;
whether [[the]] ~~each~~ property is read-only; and
whether [[the]] ~~each~~ property is restricted.

15-16. (Canceled).

17. (Currently amended) A method of operating on a virtual content repository (VCR) ~~that represents a plurality of content repositories having different types of content wherein the VCR has a node and wherein said node is associated with information, [[said]]~~ the method comprising:
~~selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier, each node is associated with a schema and each content node is associated with one of the plurality of content repositories; and~~

~~obtaining said node, wherein said node has an identifier that indicates a unique location in said VCR;~~

performing an operation on [[said]] the node, wherein the operation is one of: [[1]] deleting [[said]] the node; [[2]] changing the location of [[said]] the node in the VCR; [[3]] reading [[said]] the schema associated with the node [[information]]; and [[4]] updating [[said]] the schema associated with the node [[information]].

~~wherein the VCR represents a plurality of content repositories; and~~

~~wherein the information includes at least one of [[: 1]] a property[[;]] and [[2]] a schema.~~

18. (Currently amended) The method of claim 17 wherein:

the schema comprises one or more properties, wherein each [[a]] property is an association between a name and at least one value.

19. (Original) The method of claim 18 wherein:

~~the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.~~

20. (Currently amended) The method of claim 17 [[wherein]] further comprising:

integrating each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor exposes a first set of services to enable its integration into the VCR.

21. (Currently amended) The method of claim [[17]] 18 wherein:

[[a schema includes]] each property comprises at least one property definition.

22. (Currently amended) The method of claim 21 wherein:

[[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;

a reference;

a data type;

whether [[the]] each property is mandatory;

whether [[the]] each property is multi-valued;

whether [[the]] each property is primary;

whether [[the]] each property is read-only; and
whether [[the]] each property is restricted.

23-32. (Canceled).

33. (Currently amended) A system for a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the system comprising:

means for [[obtaining a node]] selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier, the node is associated with a schema and each content node is associated with one of the plurality of content repositories; and[[,]] wherein the node has an identifier that indicates a unique location in a virtual content repository (VCR), and wherein the node is associated with information;

means for performing an operation on the node, wherein the operation is one of [[: 1]] deleting the node; [[2]] changing the location of the node in the VCR; [[3]] reading the schema associated with the node[[information]]; and [[4]] updating the schema associated with the node[[information;]],

wherein the VCR represents a plurality of content repositories; and

wherein the information includes at least one of [[: 1]] a property; and[[2]] a schema.

34. (Currently Amended) The system of claim 33 wherein:

a schema comprises one or more properties, wherein each [[the]] property is an association between a name and at least one value.

35. (Original) The system of claim 34 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

36. (Currently Amended) The system of claim 33 wherein:

each one of the plurality of content repositories is integrated into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor exposes a first set of services to enable its integration into the VCR.

37. (Currently amended) The system of claim [[33]] 34 wherein:

[[a schema includes]] each property comprises at least one property definition.

38. (Currently amended) The system of claim 37 wherein:

[[a]] the at least one property definition can specify at least one of [[the following for a property]]:

property choices;
a reference;
a data type;
whether [[the]] each property is mandatory;
whether [[the]] each property is multi-valued;
whether [[the]] each property is primary;
whether [[the]] each property is read-only; and
whether [[the]] each property is restricted.

39-40. (Canceled).

41. (Currently Amended) A [machine] computer readable medium having instructions stored thereon that when executed by [a processor] one or more processors on the computer cause [a system] the computer to:

[[obtain]] select a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier, the node is associated with a schema and each content node is associated with one of the plurality of content repositories; and a node, wherein the node has an identifier that indicates a unique location in a virtual content repository (VCR), and wherein the node is associated with information;

perform an operation on the node, wherein the operation is one of [[: 1]] deleting the node; [[2]] changing the location of the node in the VCR; [[3]] reading the schema associated with the node[[information]]; and [[4]] updating the schema associated with the node [[information]];

wherein the VCR includes a plurality of content repositories; and

wherein the information includes at least one of: [[1]] a property; and [[2]] a schema.

42. (Currently Amended) The [machine] computer readable medium of claim 41 wherein:

the schema comprises one or more properties, wherein each [[the]] property is an association between a name and at least one value.

43. (Currently Amended) The [machine] computer readable medium of claim 42 wherein:
the at least one value can be a text string, a number, an image, an audio/visual presentation, or
binary data.

44. (Currently Amended) The [machine] computer readable medium of claim 41 wherein:
each one of the plurality of content repositories is integrated into the VCR by use of one or more
of a VCR browser, a content node editor, a schema editor and a property editor exposes a first set of
services to enable its integration into the VCR.

45. (Currently Amended) The [machine] computer readable medium of claim [[41]] 42 wherein:
[[the schema includes]] each property comprises at least one property definition.

46. (Currently Amended) The [machine] computer readable medium of claim 45 wherein:
[[a]] the at least one property definition can specify at least one of [[the following for a
property]]:
property choices;
a reference;
a data type;
whether [[the]] each property is mandatory;
whether [[the]] each property is multi-valued;
whether [[the]] each property is primary;
whether [[the]] each property is read-only; and
whether [[the]] each property is restricted.

47-48. (Canceled).

49. (New) The method of claim 1 wherein:
the identifier is a path.

50. (New) The method of claim 17 wherein:
the identifier is a path.

51. (New) The system of claim 33 wherein:
the identifier is a path.

52. (New) The computer readable medium of claim 41 wherein:
the identifier is a path.

53. (New) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:
creating a hierarchy of hierarchy nodes in the VCR comprising the substeps of:
indicating a location of each hierarchy node in the hierarchy by an identifier; and
relating each hierarchy node to a type of content;
creating content nodes for each of the plurality of content repositories;
associating each hierarchy node with at least one content node; and
storing the hierarchy and content nodes in the VCR.

54. (New) The method of claim 53 further comprising:
associating each hierarchy node with a first schema.

55. (New) The method of claim 53 further comprising:
associating each content node with a second schema.

56. (New) The method of claim 55 wherein:
the second schema comprises one or more properties, wherein each property is an association between a name and at least one value.

57. (New) The method of claim 56 wherein:
the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

58. (New) The method of claim 53 further comprising:
integrating each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor.

59. (New) The method of claim 56 wherein:
each property comprises at least one property definition.

60. (New) The method of claim 59 wherein:

a the at least one property definition can specify at least one of:

property choices;

a reference;

a data type;

whether each property is mandatory;

whether each property is multi-valued;

whether each property is primary;

whether each property is read-only; and

whether each property is restricted.

61. (New) The method of claim 53 wherein:

the identifier is a path.

62. (New) A method of operating on a virtual content repository (VCR) that represents a plurality of content repositories having different types of content, the method comprising:

selecting a node from a hierarchy of both hierarchy nodes and content nodes in the VCR, wherein a location of the node in the hierarchy of nodes is indicated by an identifier and each content node is associated with one of the plurality of content repositories; and

performing an operation on the node, wherein the operation is one of: deleting the node; changing the location of the node in the VCR; reading the node; and updating the node.

63. (New) The method of claim 62 wherein:

the node is associated with a schema comprising one or more properties, wherein each property is an association between a name and at least one value.

64. (New) The method of claim 63 wherein:

the at least one value can be a text string, a number, an image, an audio/visual presentation, or binary data.

65. (New) The method of claim 62 further comprising:

integrating each one of the plurality of content repositories into the VCR by use of one or more of a VCR browser, a content node editor, a schema editor and a property editor.

66. (New) The method of claim 63 wherein:
each property comprises at least one property definition specifying at least one of:
property choices;
a reference;
a data type;
whether each property is mandatory;
whether each property is multi-valued;
whether each property is primary;
whether each property is read-only; and
whether each property is restricted.

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